



Roundtable on Regional Issues State Initiatives to Promote Renewables

Sept 4, 2004

New Jersey's New RPS Task Force Recommendations

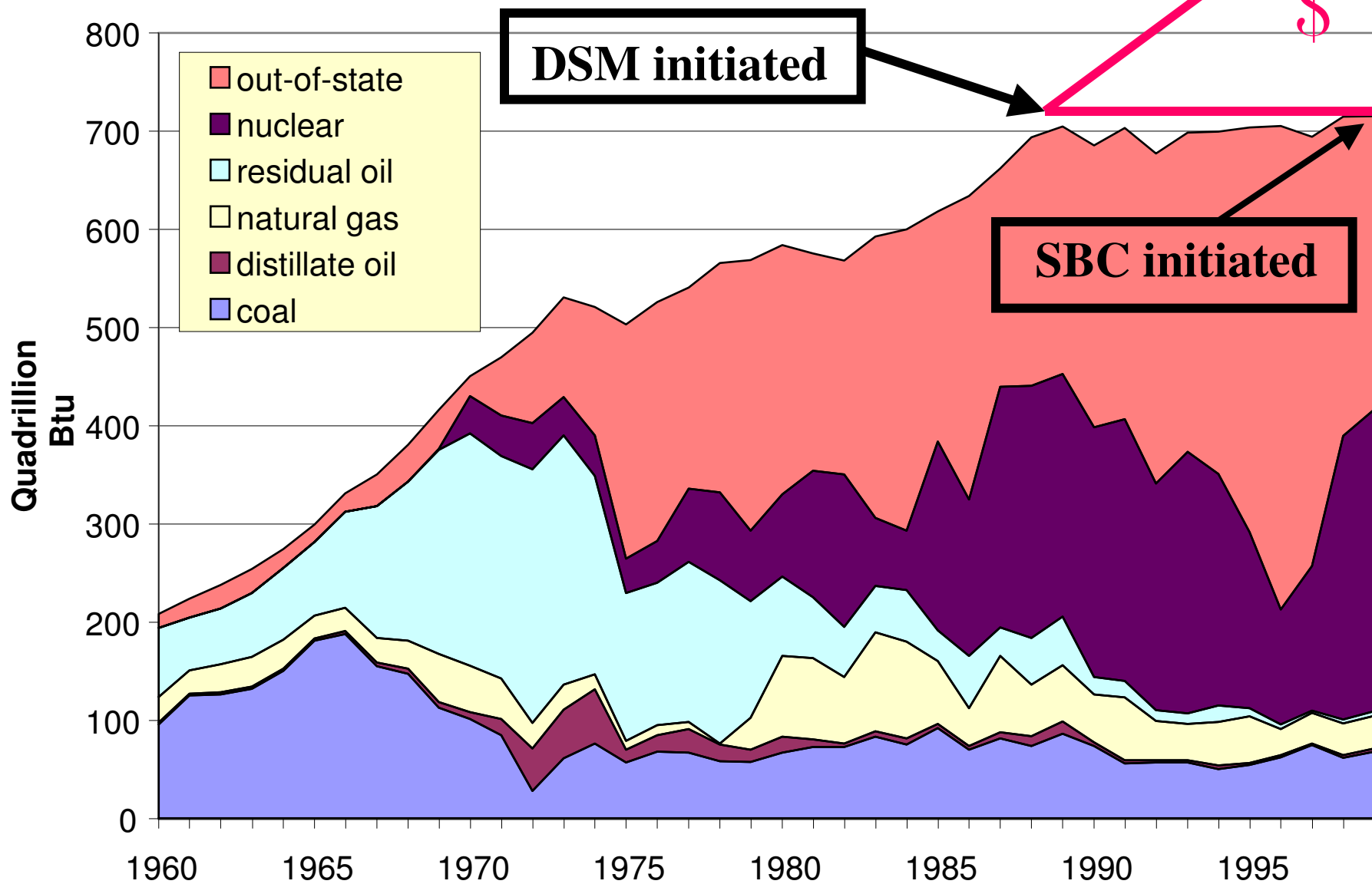
**Michael Winka Director
NJBPU Office of Clean Energy**



- **8,414,350 people**
- **8,722 square miles**
- **35,921 miles of roadways**
- **127 miles of shoreline**
- **73,000,000 MWh (2002)**
 - **60,000,000 MWh (instate)**
- **18,000 MW**

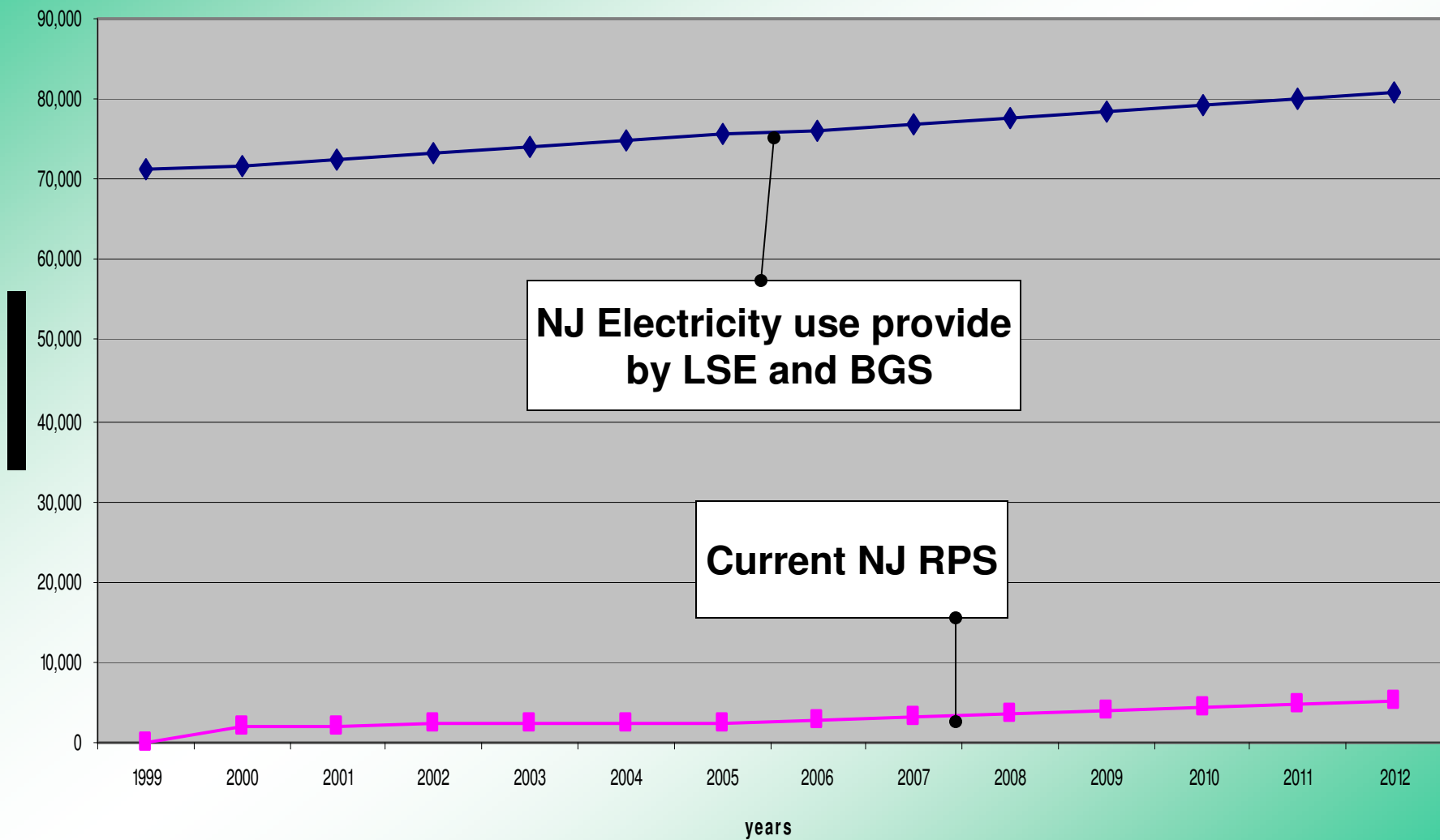
Energy consumed in production of electricity used in NJ, by source type, 1960 to 1999

from US DOE/EIA data



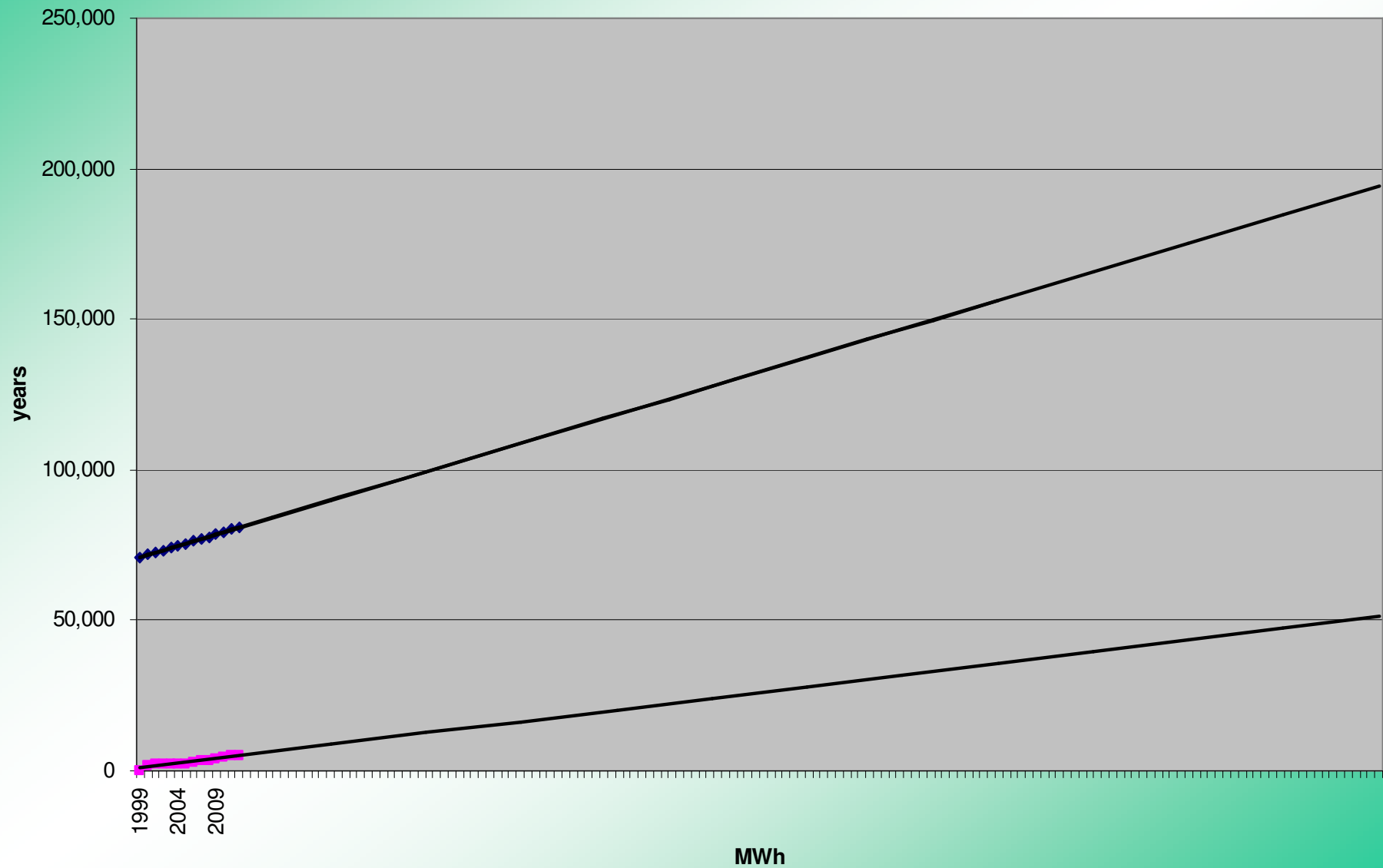
NJ Current RPS

NJ Electricity Consumption and Class I and II Capacity per the RPS



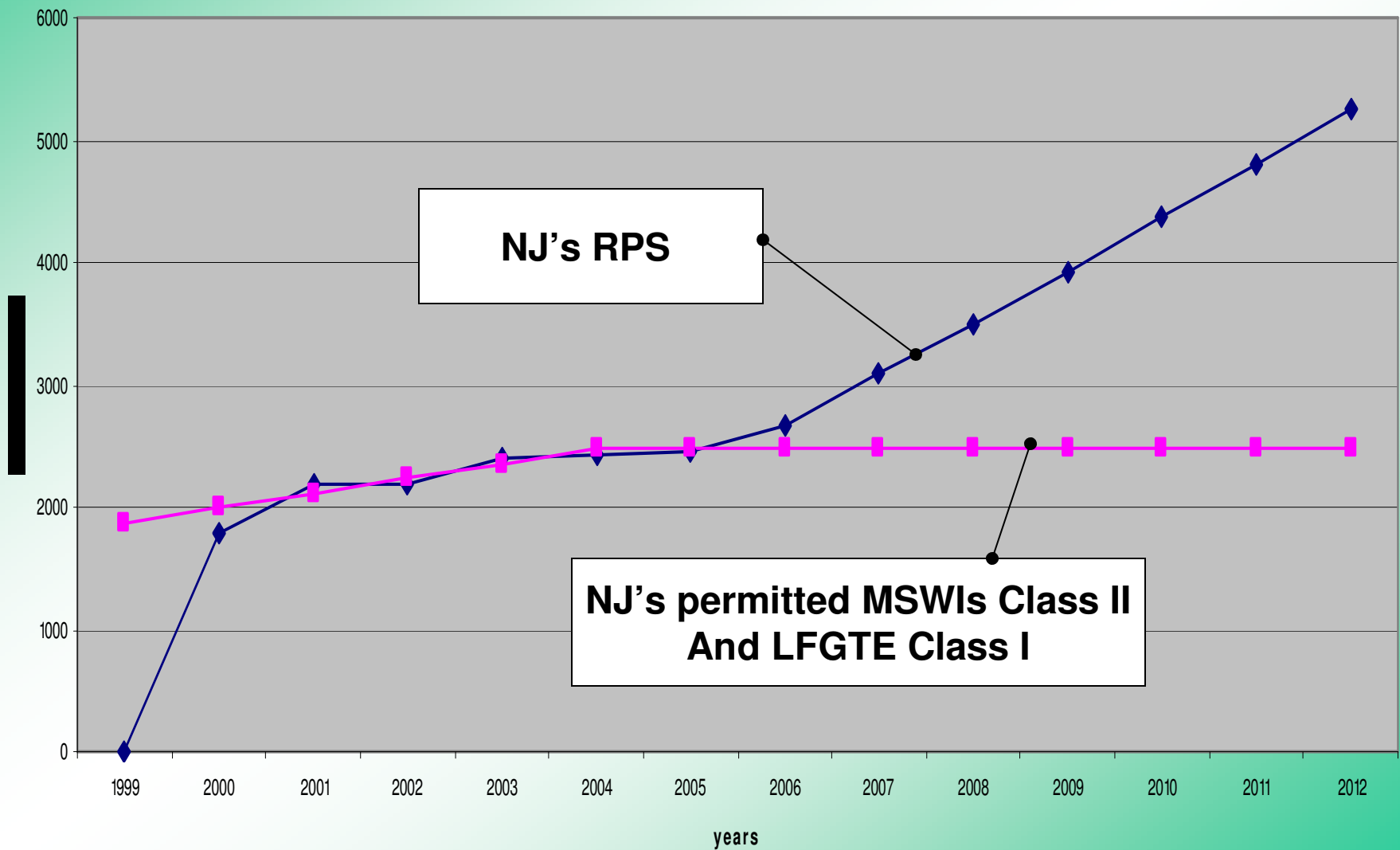
Current New Jersey RPS

50 Year projected Trend of NJ Electricity Generation (Convventional and Renewable)



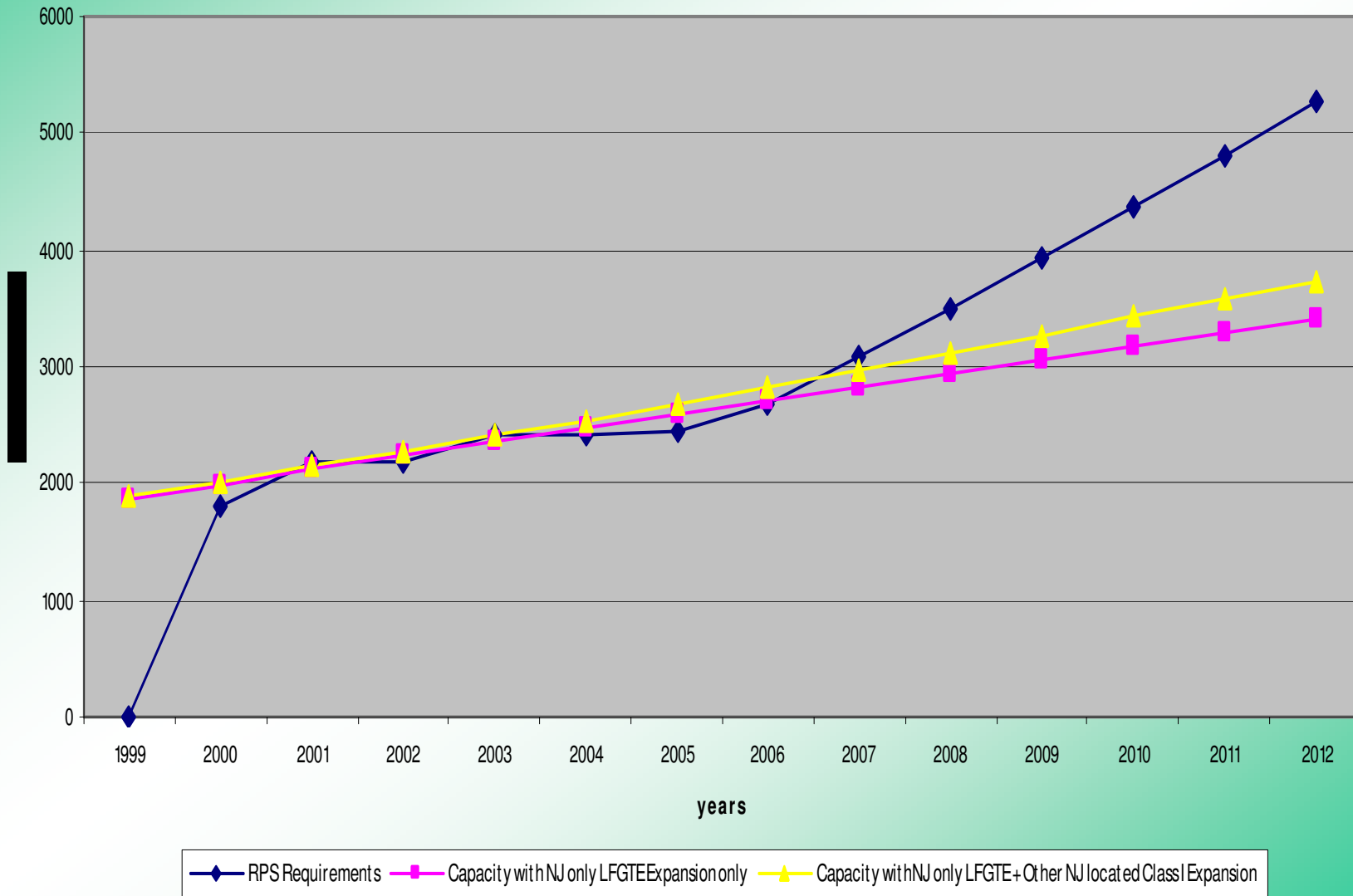
Current New Jersey RPS

NJ RPS Requirements and Existing NJ Class I & II Capacity



Current New Jersey RPS

Current NJ RPS Requirements vs. Current NJ Class I & II Capacity with Potential NJ Expansion (Does not include other PJM states' Class I or Class II Renewable Energy Facilities)



RPS Task Force Model Data

(Joe Carpenter, Bill Mates, Jorge Reyes, Serpil Guran, Frank Sietz AQM,
Nelson Hausman DSHW , Joe Sherrick PADEP Ryan Wiser NREL and Ken Skyler PJM)

What

All permitted/approved Class I RE in NJ

Expansion of permitted Class I in NJ

Funded/supported Class I projects in NJ

All permitted/approved Class I RE in PJM

How

Evaluated the resources in NJ/PJM

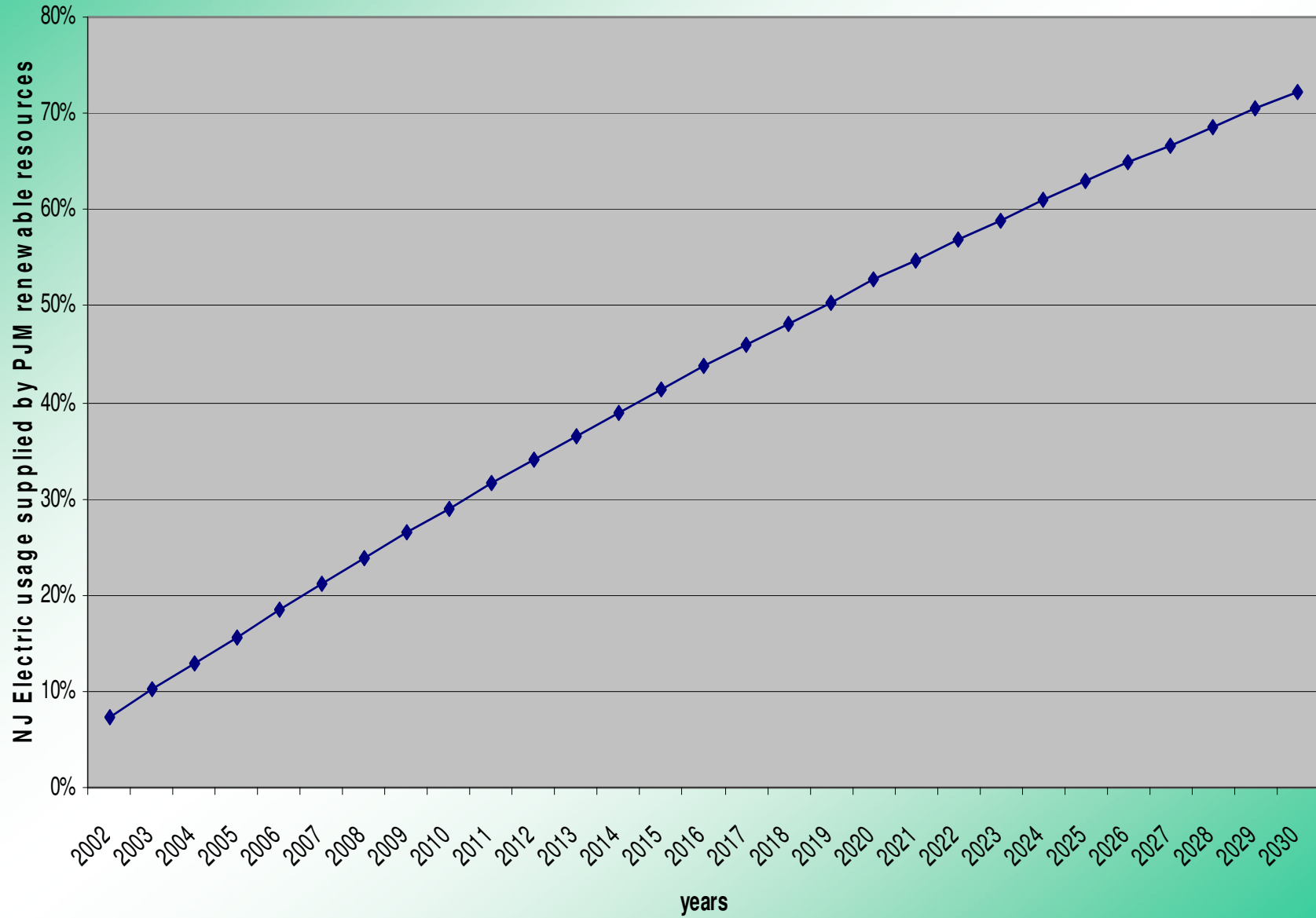
Evaluated potential expansion of NJ facilities

Applied NJ analysis to PJM facilities

Evaluated incremental cost

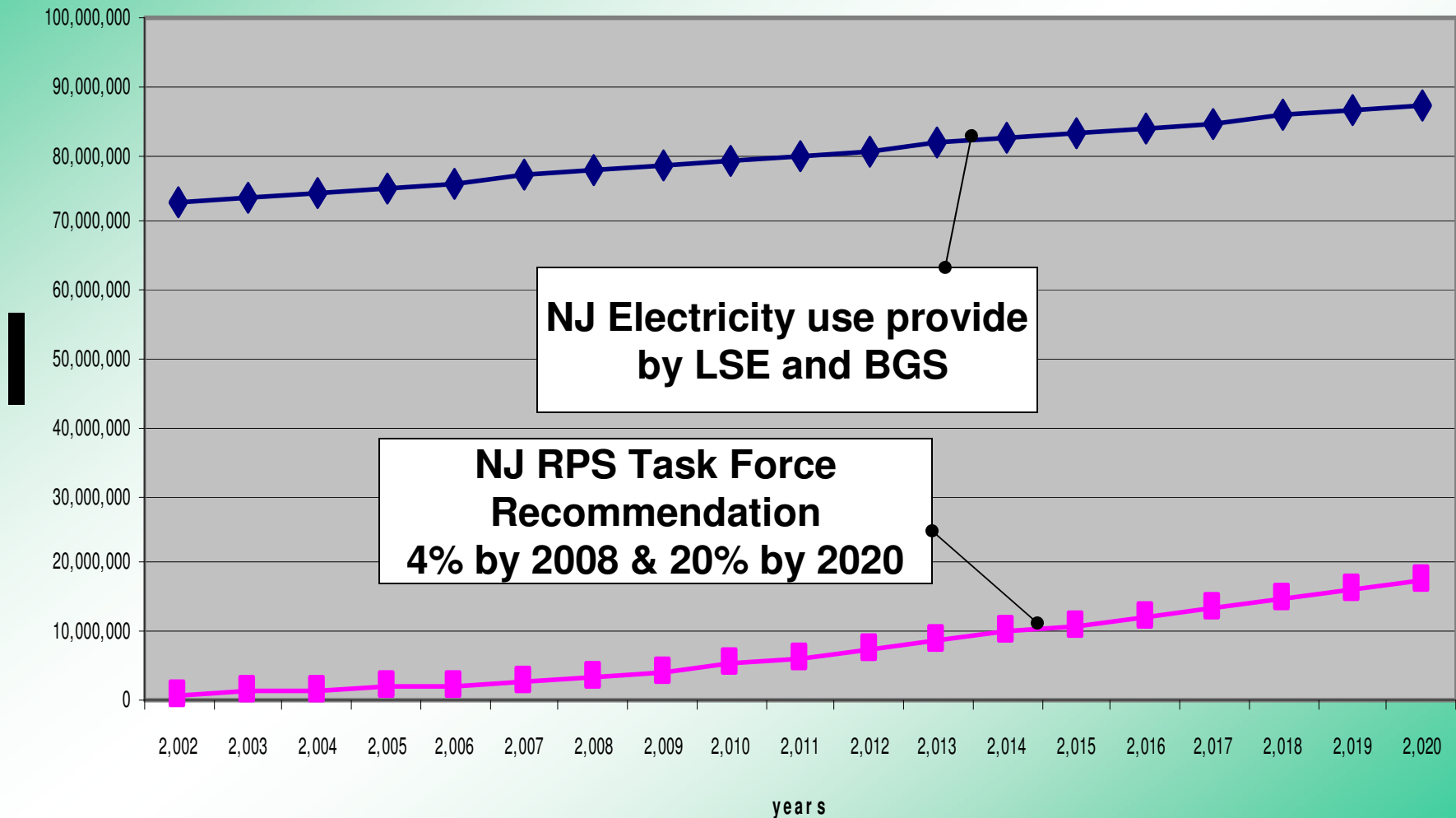
Evaluated avoided costs (externalities)

NJDEP/NJBPU RPS Capacity Model



New Jersey RPS Task Force Recommendations

DRAFT - RPS Task Force Recommendations at 4% - DRAFT



Cost of RPS Task Force Recommendations



**Double the Current
RPS to 4% by 2008**

**Setting a Target of
20% by 2020**

2004 \$1 per Household*

2004 typical household electricity cost - \$1300/yr

2020 \$11 per Household*

2020 typical household electricity cost - \$2000/yr

* Determined by the RPA for the PV and Wind Incentives

RPS Task Force Recommendations Class I Incentives

120,000 MWh of PV (90 MW)

Generation by 2008 in NJ

“New Jersey – The Persian Gulf of Flat Roofs”

Tom Layden Powerlight



RPS Task Force Recommendations

Class I Incentives

- **Certificate tracking system**
- **Alternate Compliance Payment**
- **Aggregation of CORE for RPS**
- **RPS Reciprocity**

**Good Balance Between
Regulations and Market Incentives**

New Jersey Clean Energy Program

2002 Results

Annual Fund

\$124 million - 75%EE/25%RE

MW funded (\$43.8M)

34.5/16.4 grid/customer

5.7 PV, 32.4 wind, 9.9 biomass

2.9 fuel cells

Cost per Household

\$ 10-20 per hh per year total

\$ 2.5 – 5 per hh per year for RE



DRAFT- RPS Task Recommendations at 4% with trend - DRAFT

